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DETAILED OBSERVATIONS OF THE KUROSHIO AND ITS EDDIES - OCTOBER 1976

bу

Barry P. Blumenthal Robert E. Cheney

NAVOCEANO Technical Note 3700-76-78

U.S. NAVAL OCEANOGRAPHIC OFFICE WASHINGTON, D.C. 20373

January 1978

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ABSTRACT

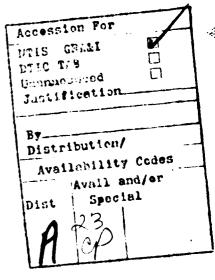
Two Kuroshio eddies -- one cyclonic and one anticyclonic -- were located east of Japan during October 1976 and were the subject of a detailed ship survey. A segment of the Kuroshio between the two eddies was also studied. The data consist of 212 XBT's and 29 deep STD stations. These observations represent some of the most thorough measurements of Kuroshio eddies presently available and the first detailed description of a cyclonic eddy.

The cyclonic Kuroshio eddy had an overall diameter of 250 km and was estimated to be 4 months old. Temperature at the eddy center was 7°C colder than outside at a depth of 400 m. The anticyclonic eddy was 120 km in diameter and was 7°C warmer than surrounding water at 400 m. It was at least 8 months old and was beginning to coalesce with the Kuroshio.

Comparison of these two eddies with several Gulf Stream eddies shows them to be similar features in many respects.

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I. INTRODUCTION

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As part of its study of oceanic fronts, the Naval Oceanographic Office conducted a joint ship/aircraft survey of the Kuroshio and Oyashio frontal system east of Japan during October 1976. The Kuroshio and Oyashio fronts were tracked from the coast eastward to about 155°E. Analysis of the aircraft data, reported by Cheney (1977), revealed a complicated frontal zone with numerous eddies present. This report deals with the data collected aboard USNS SILAS BENT (T-AGS 26) in selected features of the region during 18-31 October.

II. DATA

During the initial aircraft survey (9-22 October 1976), positions of a cyclonic Kuroshio eddy, the Kuroshio, and an anticyclonic Kuroshio eddy were relayed to SILAS BENT. Two-hundred twelve SXBTs (shipboard expendable bathythermographs) and 29 STD (salinity-temperature-depth) profiles were subsequently obtained during a detailed survey of each of these three features.

Raw data from a Plessey model 9040 STD sensor were sampled every 0.5 s and recorded on magnetic tape. Data were than averaged and values obtained at 1 m intervals. Corrections were applied by comparing values from Niskin bottle samples and reversing thermometers to those obtained by the instrument. The accuracy of the STD system was within 0.02°C in temperature and about 0.01°/... in salinity. The depth accuracy was within 2 m. Navigation was by satellite and positions were accurate to within 0.2 km.

III. DISCUSSION

For each of the three features investigated by the BENT, four vertical sections (vertical exaggeration 200:1) are presented: 1) temperature;

2) salinity; 3) sound speed and 4) geostrophic current velocity. Sound speed

is derived from Wilson's (1960) equation, and geostrophic velocity is referenced to the maximum depth of the STD cast in each feature. Selected STD data used in geostrophic current calculations and other derived parameters are listed in the Appendices.

A. Kuroshio Cyclonic Eddy

A Kuroshio cyclonic (cold) eddy, centered at 33°N, 143°E, was surveyed from SILAS BENT during 18-24 October, 1976. These observations are particularly significant in that few cold eddy studies have ever been made and the little information that does exist (Masuzawa, 1957) is not recent. Temperature at 400 m in the cold eddy is shown in figure 1, along with SXBT and STD location. The overall diameter of the eddy is approximately 250 km*. Temperature at 400 m is 7°C colder at the eddy center than outside and the net horizontal gradient is 0.06°C km⁻¹.

Figure 2 is a zonal temperature section through the eddy along 33°N (center at station 6). The main thermocline at the center of the eddy is 300 m shallower than in the subtropical water surrounding it. A remarkable feature that is readily apparent is the fact that the cold core extends to 3000 m, although at this depth temperatures in the eddy are only 0.05°C colder than outside.

The age of this eddy may be estimated by assuming a decay rate similar to those measured for Gulf Stream eddies. Assuming reasonable initial conditions for the depth of the thermocline at the eddy core (15°C at 75 m) and a linear sinking rate of 0.5 m day⁻¹ (Parker, 1971; Cheney and Richardson, 1976) the estimated age of this eddy is four months.

^{*}The intersection of the 15°C isotherm with a depth of 500 m has been used as a standard to define the diameters of Gulf Stream cyclonic eddies. equivalent definition for Kuroshio cyclonic eddies is 9°C at 500 m depth; this yields a diameter of 170 km for the Kuroshio eddy discussed here.

Figure 3 shows the existence of an intermediate salinity minimum, representative of North Pacific Intermediate Water (NPIW). The axis of the minimum is shallower at the eddy center (500 m compared 750 m outside) and creates an interesting situation: above the minimum the eddy represents a negative salinity anomaly along horizontal surfaces while the opposite is true at depths greater than the minimum.

Sound speeds in the eddy (figure 4) are low within the core and high in the surrounding water at the same depth, with a net difference of 25 m s⁻¹. Axial depth of the deep sound channel (DSC) shows an abrupt change from 900 m in the subtropical water to 500 m in the eddy core. Although sonic layer depth (SLD) shows no appreciable change across the eddy in this case, the uplifted thermocline at the eddy center represents a barrier to vertical motions and creates the potential for large SLD differences to occur. Periods of intense vertical mixing, such as during winter storms, would establish deep mixed layers outside the cold eddy while layers would remain shallow near the center.

A geostrophic velocity section for the cold eddy is shown in figure 5. The shaded portion represents southward flow (towards the reader). In order to account for centripetal accelerations, a correction was applied according to the gradient wind relationship (gradient currents are less than geostrophic currents in a cyclonic eddy). Maximum surface current velocity in the eddy is 80 cm s⁻¹ (1.5 kt) and the tangential volume transport is $50 \times 10^6 \, \mathrm{m}^3 \, \mathrm{s}^{-1}$.

Both the available potential energy (APE) and kinetic energy (KE) were determined for this eddy. The APE is the energy which would become available if the density stratification became everywhere barotropic, and the KE is the energy of the eddy's mean tangential motion. The potential energy anomaly, χ , is defined as:

$$\chi = \frac{1}{g} \int_{0}^{P} P \delta dP \quad (erg cm^{-2}) \quad (Fofonoff, 1962)$$

where g = acceleration of gravity (cm s⁻²)

P = pressure (dB)

 δ = specific volume anomaly (cm³g⁻¹)

This quanty was computed for each STD profile. Difference between the potential energy anomaly at any point inside the eddy and the reference value (station 10) is the APE per unit area, and the total APE of the eddy was obtained by summing these differences over the area of the eddy.

Total KE was determined from computed gradient current velocities by a summation over the eddy's area, where KE per unit area is defined as:

$$KE = 1/2 \int_{0}^{P} \rho v^{2} dP \text{ (erg cm}^{-2})$$

 $\rho = density (g cm^{-3})$

v = current velocity (cm s⁻¹)

Since most eddies are not circular, but slightly elliptical, both the APE and KE summations were performed by considering the eddy boundary to be composed of two semicircles of different radii and integrating over the area in each half of the dddy.

Total APE and KE of the cold Kuroshio eddy are 1.3 x 10²⁴ ergs and 3.3 x 10²² ergs, respectively. This yields a ratio of APE/KE = 40. Wright (1972) has estimated the APE/KE ratio of the ocean to be between 10 and 50. Studies of four different cyclonic Gulf Stream eddies have shown this ratio to range from 15 to 46 (Khedouri and Gemmill, 1974; Cheney and Khedouri, 1975; Cheney and Richardson, 1976). The fact that a Kuroshio cyclonic eddy has an APE/KE ratio similar to that of Gulf Stream eddies is not surprising since both are formed by western boundary currents with similar scales,

transports, and speeds.

Cheney and Richardson (1976) followed a cyclonic Gulf Stream eddy for 14 months and determined that its APE decay rate was approximately 10²¹ ergs per day. If we apply this decay rate to the Kuroshio eddy we arrive at a total predicted lifetime of 3.9 years. It is possible that energy is lost more rapidly during the later stages of decay and therefore this estimate may be high. However, Gulf Stream eddies have been observed to last as long as two years.

Figure 6 is a composite T-S diagram for the ten STD stations in the Kuroshio cold eddy. Three stations near the center of the eddy (5, 6, and 7) provide evidence of the less saline core of the confluence zone water thus confirming that the eddy was formed from a Kuroshio meander. The other stations maintain a tight T-S relationship except in the region of the salinity minimum. The central STD stations (5 and 6) display the most pronounced salinity minima.

B. Kuroshio

An STD section was obtained across the Kuroshio at 147°00'E (figure 7). The cross-current temperature difference at 400 m is 10°C and the horizontal gradient is 0.1°C km⁻¹. The temperature section in figure 8 shows the front extending to 2500 m with a horizontal temperature difference of 0.1°C at this depth. The center of the main thermocline (10°C) slopes down from 150 m at the northern portion of the section to 600 m south of the Kuroshio with a maximum slope of 7.5 m km⁻¹. The nearly isothermal layer (16°-18°C) between the upper and main thermoclines is Subtropical Mode Water (Masuzawa, 1969). The T-S characteristics of this water (T=17°C, S=34.8°/...) make it a counterpart of the 18° Water in the Sargasso Sea (Worthington, 1959).

The salinity section (figure 9) shows the salinity minimum layer which corresponds to NPIW. Comparison with the temperature section in figure 8 reveals that the axis of the minimum follows the bottom of the main thermocline (5°C). The core of the NPIW occurs at a depth of 300 m in the region between the Oyashio Front and the Kuroshio, with a minimum salinity of approximately $33.6^{\circ}/_{\circ\circ}$. South of the Kuroshio, the salinity minimum layer reaches a maximum depth of 800 m with a salinity value of $33.7^{\circ}/_{\circ}$

The sound speed section through the Kuroshio (figure 10) shows the depth of the DSC axis and the SLD. SLD changes from 50 to 90 m as the front is crossed from north to south. DSC exhibits a more dramatic ch from 400 m north of the Kuroshio to 1230 m in the subtropical water of the Central Region.

Geostrophic velocity calculations for the Kuroshio were performed assuming a "level of no motion" at 2500 db. Shaded portions in figure 11 represent westward flow. The maximum surface current speed is about 185 cm s⁻¹ (3.6 kt) which is equal to the average value measured by geomagnetic electrokinetograph (GEK) at 145° E (Kawai, 1969). A countercurrent is seen approximately 150 km to the south (right) of the Kuroshio axis having a maximum value of 11 cm s⁻¹ (0.2 kt). A very weak deep return flow between stations 13 and 14 is also evident. The net volume transport through this section is 64×10^6 m³ s⁻¹ towards the east, but only about 57 x 10^6 m³ s⁻¹ is due to the main body of the Kuroshio (between stations 16 and 12).

T-S diagrams for the ten STD stations taken in the Kuroshio are shown in figure 12. Station 17 was taken at the northern edge of the Kuroshio while the southern edge is represented by station 12. The salinity minimum

occurs at 310 m and 780 m for stations 17 and 12, respectively. In the upper portion of the diagram, the five southern stations (higher temperatures) are distinctly different from the five northern stations. All profiles converge to a tighter fit at about 10°C, the isotherm representative of the main thermocline. This is the western North Pacific Central Water. At the bottom of the diagram (T=1.8°C, S=34.6°/...) is western North Pacific Deep Water.

C. Kuroshio Anticyclonic Eddy

The initial survey on 16 October by the NAVOCEANO aircraft located an anticyclonic (warm) eddy at 37°50'N, 143°20'E (Cheney, 1977). During the time between the aircraft and ship surveys, the eddy center moved 52 km southeastward at an average speed of 4 km day⁻¹ to 37°30'N, 143°45'E. The ship XBT survey (figure 7) suggested that the eddy was attached to the northern edge of the Kuroshio. Subsequent satellite imagery on 2 November confirmed that the eddy was indeed coalescing with the Kuroshio. Although interaction with the Kuroshio may have had a slight effect on the eddy during the ship survey, the STD section obtained on 30 October is believed to be representative of the eddy's structure.

The average diameter of the eddy is 120 km (defined by the 6°C isotherm at 400 m). At 400 m, temperatures at the eddy center are 6° to 7°C greater than in the surrounding waters. Kitano (1975) discussed the size and movement of anticyclonic eddies off Japan based on 17 years of data and found that eddies had an average diameter of 130 km, a mean translational speed of less than 1 km day⁻¹, and lifetimes on the order of a year.

The zonal temperature section through the eddy along 37°30'N is shown in figure 13. The isothermal core of approximately 11°C was created during winter by vertical mixing; this indicates that the eddy is at least eight months old. The seasonal thermocline (12° - 18°C) forms a "cap" over the isothermal core. Temperatures at the eddy center are 6°C warmer than outside at 400 m and 0.3°C warmer at 1500 m.

In the anticyclonic eddy, the salinity minimum occurs at 700 m in the center and at 400 m outside (figure 14). Maximum horizontal salinity gradient occurs at 600 m; salinity at the eddy center is 0.5°/.. less than outside at this depth. The 34.5°/.. isopleth indicates that the eddy extends to at least 1500 m.

The sound speed section (figure 15) indicates little change in SLD across the eddy. Maximum sound speed occurs at the top of the main thermocline in the warm core of the eddy, with a maximum horizontal change of 25 m s⁻¹ at 400 m. The DSC axis is depressed from 400 m in the surrounding water to a depth of 700 m in the center.

Figure 16 is the current velocity section through the warm eddy. The shaded region represents southward flow (toward the reader). Corrections for centripetal accelerations have been applied to the computed geostrophic velocities. Maximum current is approximately 100 cm s⁻¹ (2.1 kt) while the volume transport is $42 \times 10^6 \text{ m}^3 \text{ s}^{-1}$.

Total APE and KE of the eddy are 3.7×10^{23} ergs and 3.6×10^{22} ergs, respectively (APE/KE = 10). Saunders (1971) calculated a value of 30 for the APE/KE ratio for an anticyclonic Gulf Stream eddy, although the accuracy of this figure is only \pm 50%. Khedouri and Gemmill (1974) found the ratio to be 18 for a larger Gulf Stream warm eddy.

The T-S diagrams for the warm Kuroshio eddy (figure 17) appear to be more diverse than those of either the Kuroshio or the cold eddy. This may be due in part to the inherent variability of the confluence zone water, which is being mixed into the warm eddy. An additional factor could be entrainment of Kuroshio water into the eddy during its coalescence. The depth of the salinity minimum for the center station (#27, 780 m), is much deeper than for the outside station (#17, 400 m), as is expected. The T-S curves converge to the Pacific Deep Water.

IV. SUMMARY AND CONCLUSIONS

These observations represent some of the most thorough measurements of Kuroshio eddies presently available. The cyclonic eddy data are particularly significant in that they provide the first detailed description of these features.

Selected physical properties of the two Kuroshio eddies are given in Tables 1 and 2. Similar properties for several Gulf Stream eddies are included. Comparison shows that the cyclonic Kuroshio eddy is remarkably similar to its Atlantic counterparts. No attempt is made here to adjust the values according to the different eddy ages, but the Kuroshio eddy's size, thermal structure, transport, and energy fall well within the range of values for cyclonic Gulf Stream eddies.

Table 2 indicates that the anticyclonic Kuroshio eddy has transport and energy significantly larger than the two Gulf Stream examples. This appears to be due to its larger overall size and depth (it is assumed that effects due to interaction with the Kuroshio are negligible). Gulf Stream eddies of comparable size have been observed (Cheney, 1976) but values of transport and energy are not available.

One fundamental difference in structure between Kuroshio and Gulf Stream eddies is the existence in the Pacific of the intermediate salinity minimum (salinity in the western North Atlantic decreases continuously with depth). Another basic difference is that the main thermocline in the Pacific subtropical gyre is 300 m shallower than in the Atlantic. Neverthe less, it is apparent that Kuroshio and Gulf Stream eddies are dynamically and acoustically similar features.

TABLE 1
PHYSICAL PROPERTIES OF VARIOUS CYCLONIC EDDIES

APE KE	40		35	21	97	17
KE (10 ²² ergs)	3.3		8.5	4.7	2.6	5.6
APE (10 ²⁴ ergs)	1,3		3.0	1.0	1.2	6.0
Transport $(106m^3s-1)$	50 (ref 3000 m)		59 (ref 2500 m)	40 (ref 3000 m)	33 (ref 3000 m)	60 (ref 3500 m)
Max Horizontal AT (°C)	7		10	10	6	7
Diameter (km)	170 (9°/500 m) ^a		190 (15°/500 m)	125 (15°/500 m)	150 (15°/500 m)	160 (15°/500 m)
	KUROSHIO EDDY Blumenthal & Cheney (1978)	GULF STREAM EDDIES	<pre>Khedouri & Gemmill (1974)</pre>	Cheney & Khedouri (1975)	Cheney & Khedouri (1975)	Cheney & Richardson (1976)

a = intersection of 9°C isothermal surface with a depth of 500 m b = reference dpeth used for transport, APE, and KE calculations

TABLE 2
PHYSICAL PROPERTIES OF VARIOUS ANTICYCLONIC EDDIES

The control of the co

APE	10	∿30	18
(10 ²² ergs)	3.6	0.3	9.0
APE (10 ²⁴ ergs)	0.4	∿0.1 ^c	0.1
Transport $(10^{6} \text{m}^3 \text{s}^{-1})$	42 (ref 1500 m) ^b	•	22 (ref 1500 m)
Max Horizontal AT (°C)	7	7	7
Diameter (km)	125 (11°/200 m) ^a (6°/400 m)	90 (15°//200 m)	85 (15°/200 m)
	KUROSHIO EDDY Blumenthal & Cheney (1978)	GULF STREAM EDDIES Saunders (1971)	Khedouri & Gemmill (1974)

a = intersection of the 11°C isothermal surface with 200 m b = reference dpeth used for transport, APE, and KE calculations c = estimated from 200 m temperatures in the eddy

ACKNOWLEDGEMENTS

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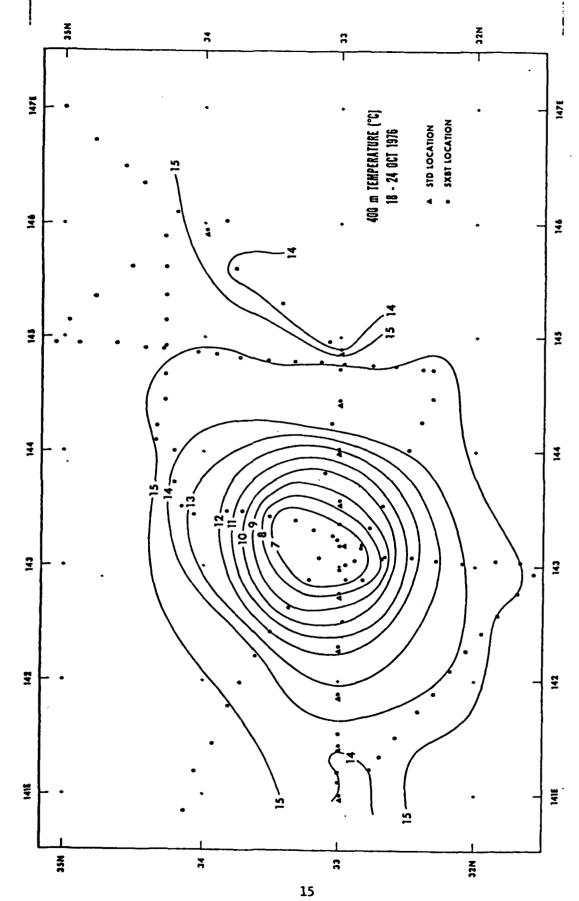


Figure 1 - Temperature (°C) at 400 m in Kuroshio cold eddy, 18-24 October 1976. Locations of STDs and SXBTs are indicated by triangles and dots, respectively.

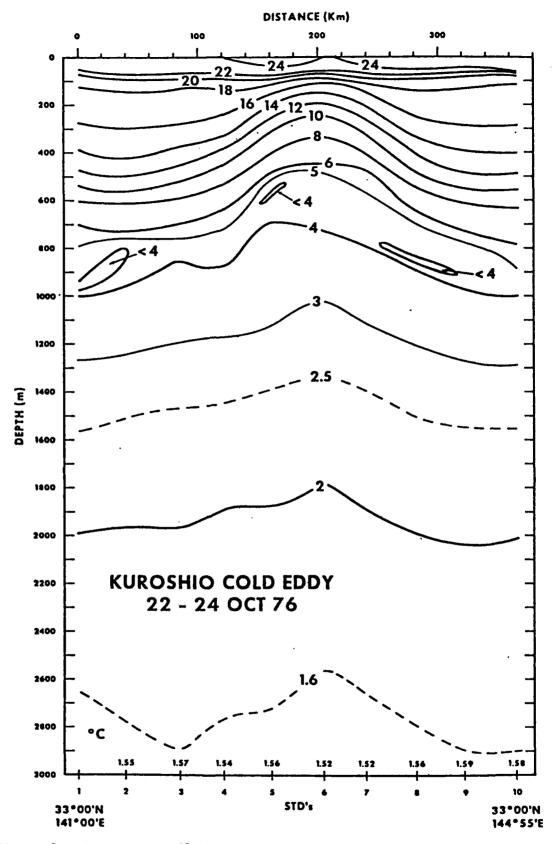


Figure 2 - Temperature (°C) structure of the Kuroshio cold eddy.

The main thermocline at the center of the eddy is uplifted

300 m from the surrounding water.

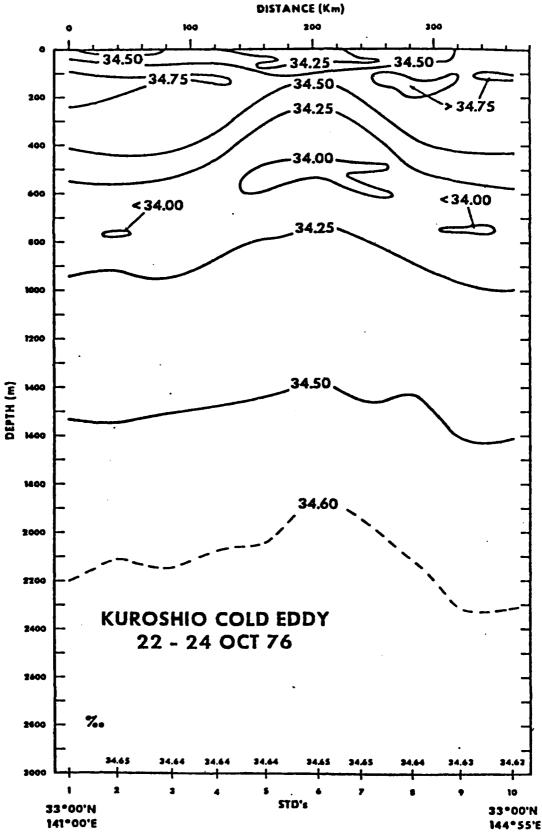


Figure 3 - Salinity (°/00) structure of the cold eddy. The salinity minimum is North Pacific Intermediate Water.

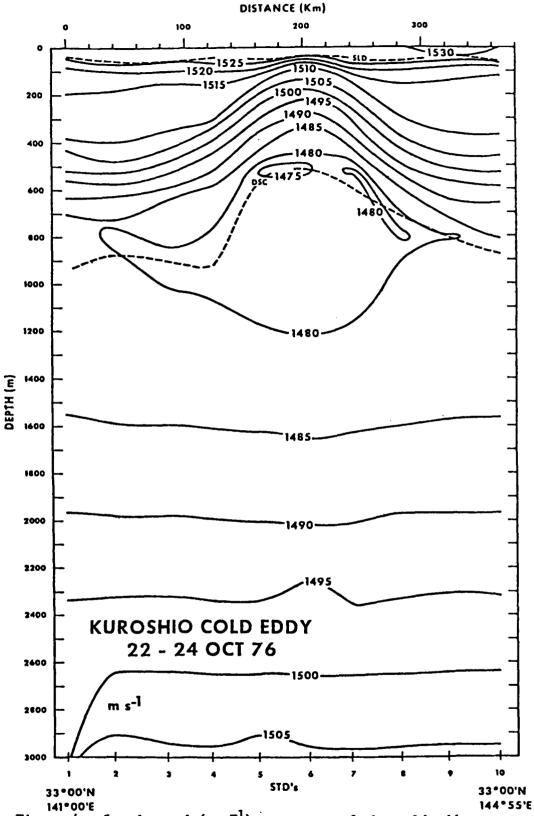


Figure 4 - Sound speed (m s⁻¹) structure of the cold eddy.
SLD and DSC are indicated by dashed lines.

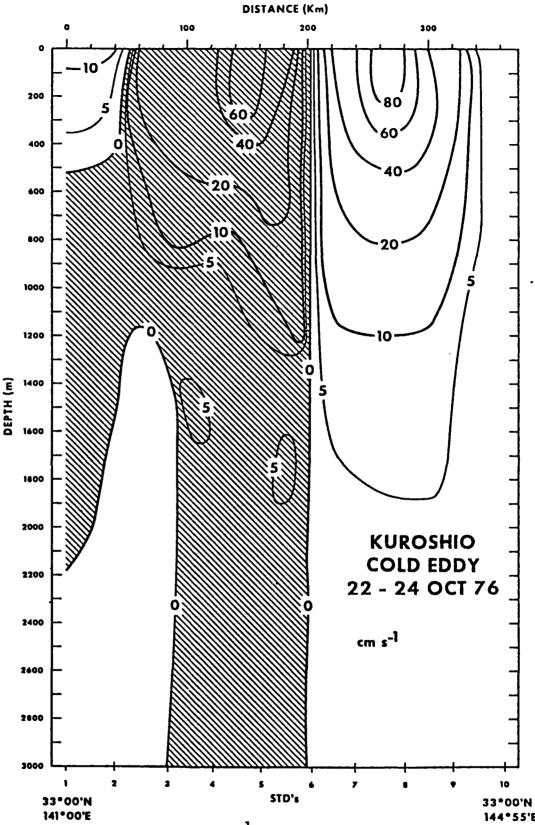
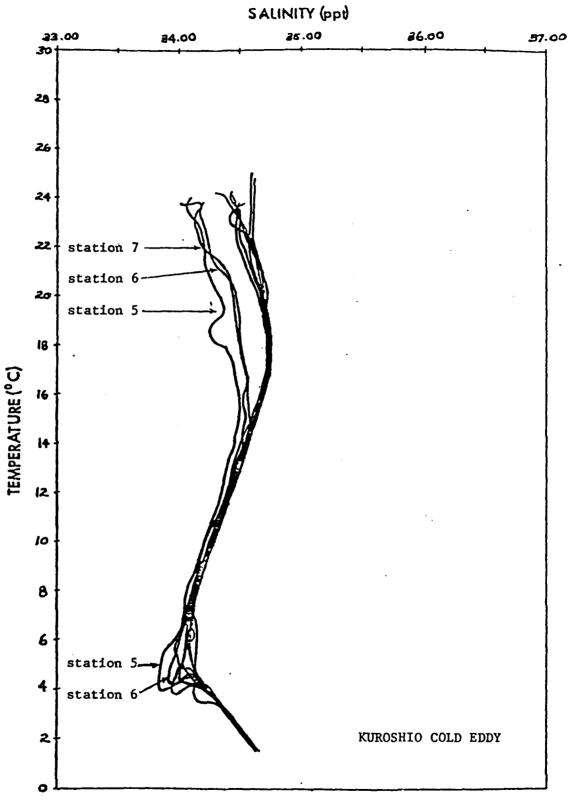
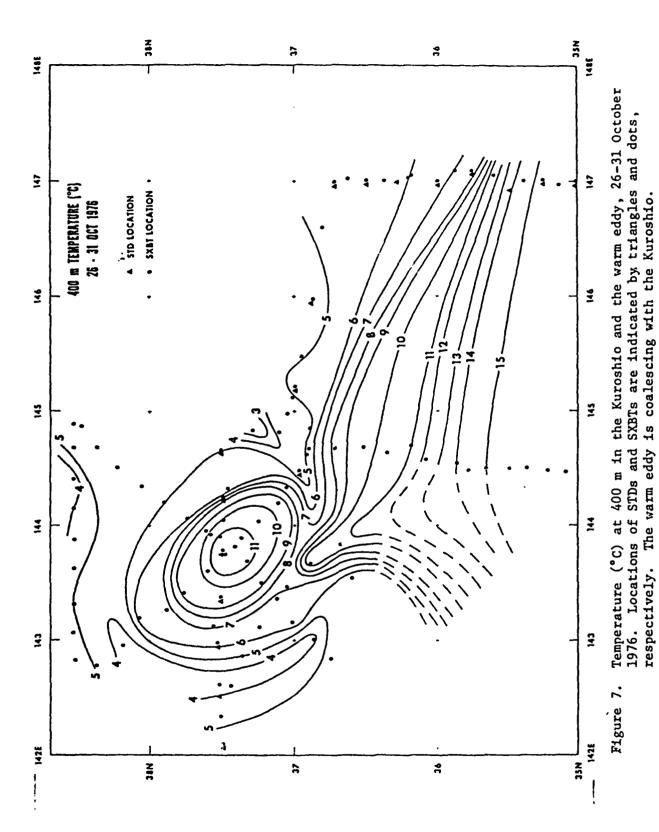


Figure 5 - Gradient currents (cm s⁻¹) of the cold eddy. The volume transport is 42 x 10⁶ m³ s⁻¹. Shaded areas represent southward flow.



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Figure 6 - T-S curves from 10 STD stations in the Kuroshio cold eddy. Lowest salinities occur at the central STD station (5).



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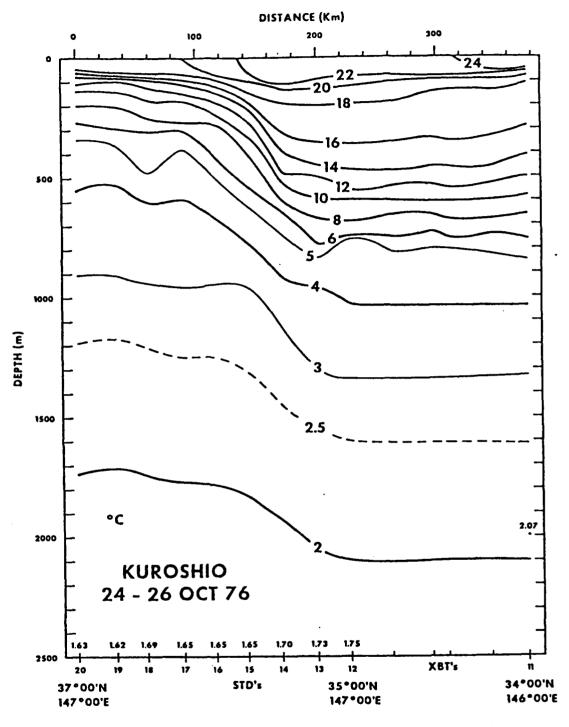


Figure 8 - Temperature (°C) section across the Kuroshio, 24-26 October 1976. The nearly isothermal (16°-18°C) layer south of the Kuroshio is Subtropical Mode Water.

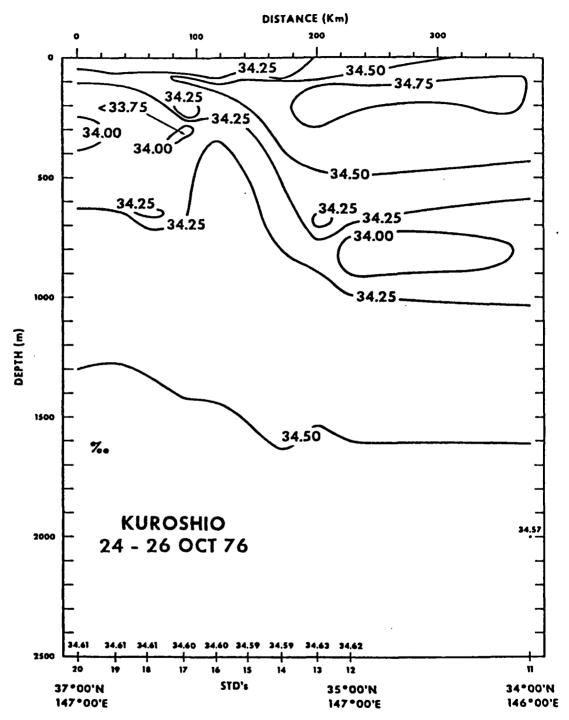
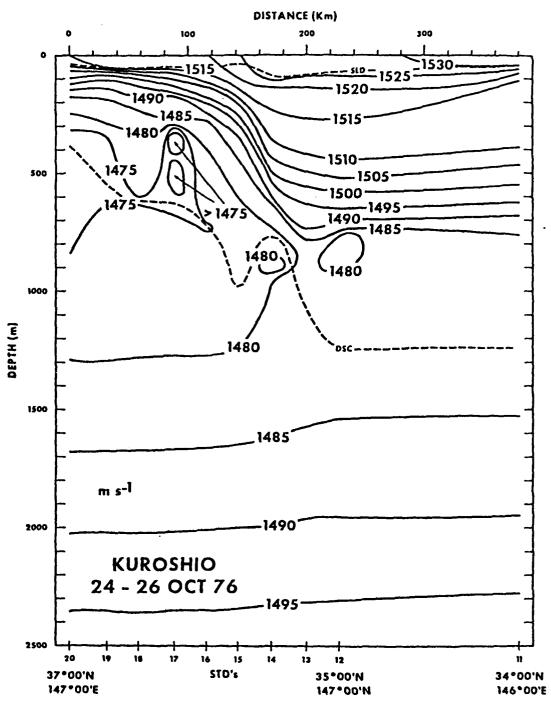


Figure 9 - Salinity (°/00) structure across the Kuroshio. The axis of the salinity minimum is 500 m deeper south of the Kuroshio.



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Figure 10 - Sound speed (m s⁻¹) structure of the Kuroshio. The DSC is 800 m shallower on the north side.

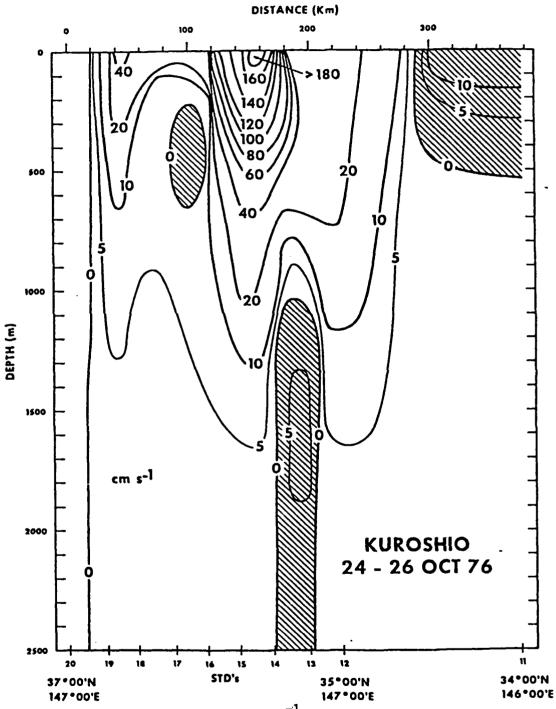


Figure 11 - Geostrophic velocity (cm s $^{-1}$) structure of the Kuroshio. Volume transport due to the Kuroshio is 57 x 10^6 m 3 s $^{-1}$. Shaded areas represent westward flow.

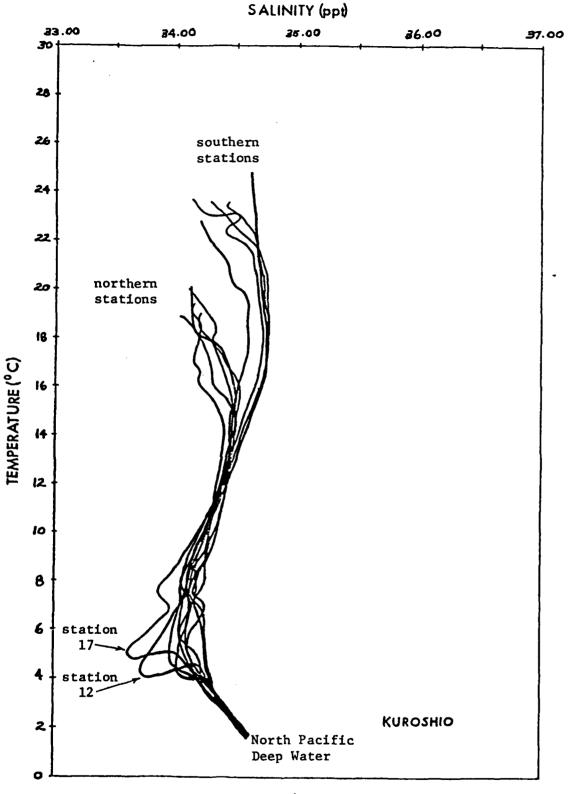


Figure 12 - T-S curves for Kuroshio STD stations. The northern edge is represented by station 17 and the southern edge by station 12.

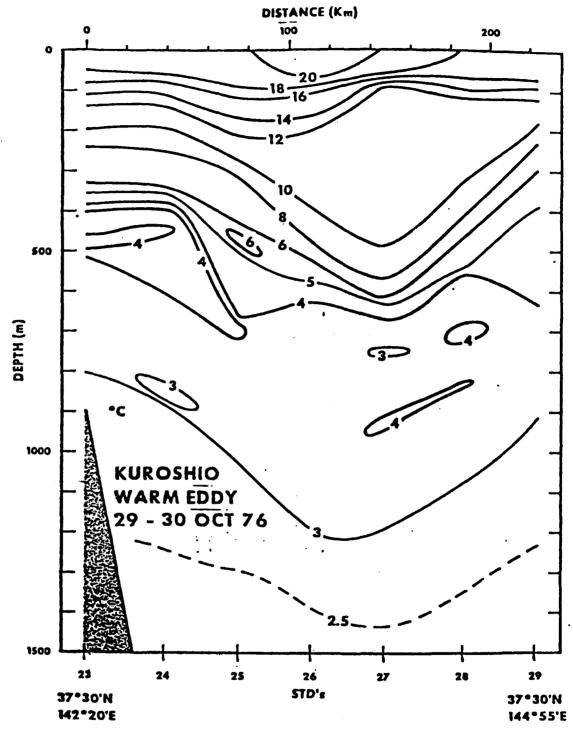


Figure 13 - Temperature (°C) structure of the Kuroshio warm eddy, 29-30 October 1976. This eddy is estimated to be at least 8 months old.

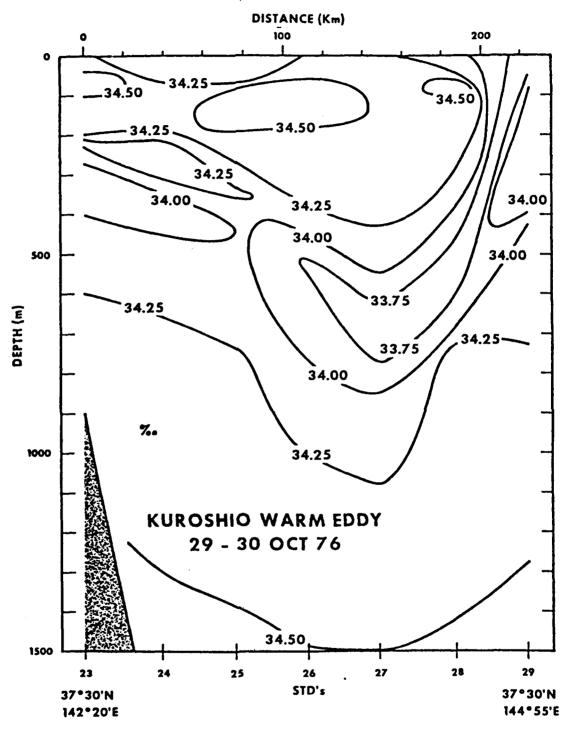


Figure 14 - Salinity (°/00) structure of the Kuroshio warm eddy. The salinity minimum in the center is 300 m deeper than in the surrounding waters.

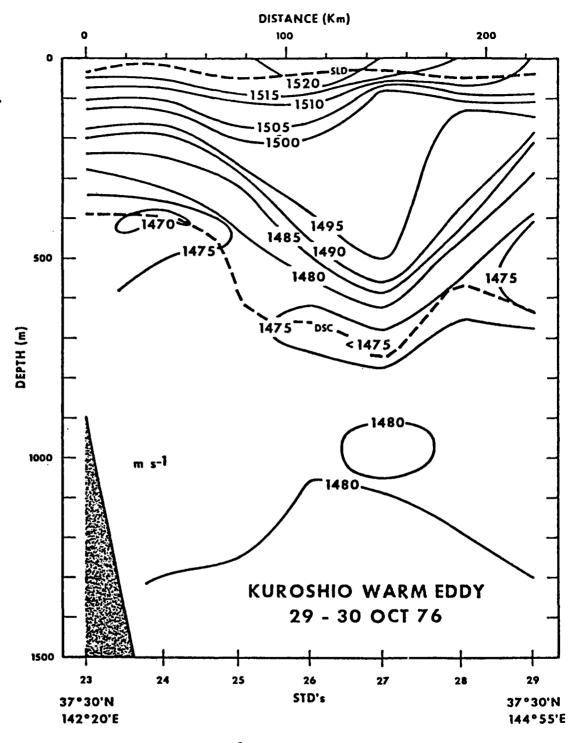


Figure 15 - Sound speed (m s⁻¹) structure of the Kuroshio warm eddy. The DSC is 300 m deeper in the center of the eddy than in the surrounding water.

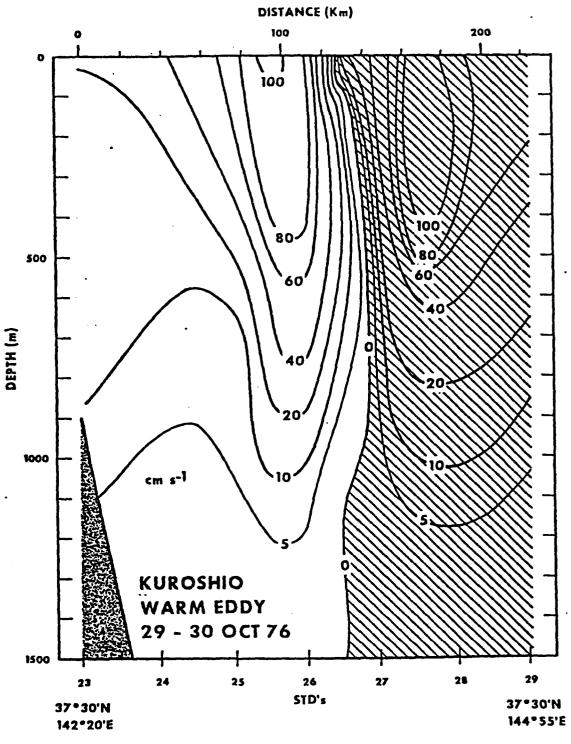


Figure 16 - Gradient current (cm s⁻¹) structure of the Kuroshio warm eddy. The volume transport is 42 x 10⁶ m³ s⁻¹. Shaded areas represent southward flow.

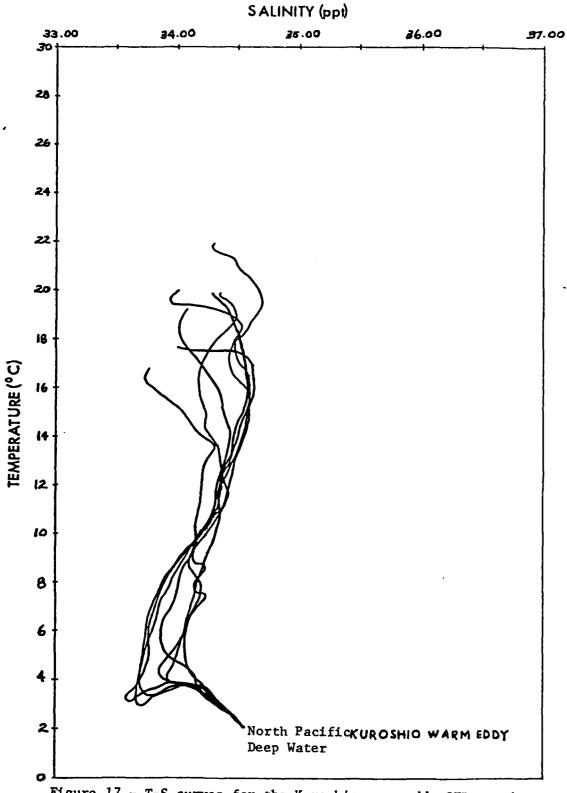


Figure 17 - T-S curves for the Kuroshio warm eddy STD stations.

The extreme variability of the confluence zone water is evident in the looseness of the fit in the T-S relationship.

APPENDIX A

STD DATA FROM KUROSHIO COLD EDDY

(22-24 October 1976)

AND CALCULATED PARAMETERS

	5 VE (M/SE 1531•	1532.0	1526.7	1520.0	1518.3	1516.6	1516.1	1513.7	1511.8	1508.6	1505.1	1494.9	1492.0	1488.6	1486.2	1484.0	1402.8	94.784.7	1481.4	1482.4	1482.0	1482.5		1405.1	1407.6	1490.5	1493.6	1496.7	1500.1	1503.9	1206.4
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STATION NO.

•		UP STANDAND DELTA DYN ANOM S	H) (H) (UC/CH) (H) (H	26 2098-20510 .00490 2.00327 15	21 U42U7-5115 .UU467 2.7U54U 15	25 2059.30301 .00479 2.60897 15	24 2839.85468 .00481 2.51294 15	23 2820 40815 00401 2 42473 15	22 2800.96343 .00333 2.35130 15	21 2776.66008 .00291 2.27329 15	20 2752.35954 .00266 2.203.6 15	19 2728.06182 .00240 2.14039 15	17 2703 .76691 .00221 2.082RZ 15	15 2655 18553 .00195 1.97893 15	13,2606.61538 .00174 1.88670 14	11 2558.05643 .00160 1.80316 14	08 2507.50869 .00151 1.72536 14	U6 2460 97211 .00137 1.65332 14	04 2412 44466 400128 1.58699 14	02 2363.93239 .00121 1.52460 14	#1 F200F01 21[00 072F16[7]00	05 22:8045615 000099 1045142 14	93 2169 98622 000096 1.31174 14	91 2121-52733 .00092 1.26478 14	86 2 73.07946 .00088 1.21979 14	86 2 24.64261 .UUQU& 1.17631 14	64 1976-216/4 +00081 1-13463 14		73 1734-25158 -00069	69 1637-54181 -00065 -87918 14	64 1540 67542 00063 0814A5 14	60 1444.25227 .00060 .75296 14	F1 /67744	100001 100001 17//// 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 0576•5651 •00048 228117 14	13 0360-17890 -00047 -17440 15	03 0144.00180 .00046 .06946 15
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YR HR	00-	44.0		227		27.56 27.65 27.65 27.7.6 27.7.7 27.7 27.75
0	8 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	****	7 7 7 7 7 7 7			
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	NAND	2.409	2.713	2.527	2.437	2.365	2.287	2.210	2 1 5 6	2.098			1.733	19901	1.594	1.532	1 . 472	+ + •	1 • 360	1.307	1 . 2 1 6	1 - 1 7 3	1 1 1 3 2	1.091		7.4.	9	.748	919.	964.	385		990	
	DELTA	*00*	.0047	V # 00 •	90038	.0033	.0029	• 0026	.0023	• 0022	00050		\$100.	.0013	• 00 1 2	· 0012	1100.	• 0011	0000	,000	8000	9000·	.0008	0000	2000	4000	4000	0000	• 0005	.000.	1000	7.000.	1000	
6	STANDARU	898-2051	878.7531	8,70,000	820.4081	800 - 9634	776-6600	752+3595	724.0618	703-7669	5581.559	26.00.00.00	509.5086	440-9721	412.4466	363.9323	315.4292	246.9371	218-4561	1.5273	73.0794	24.6426	976.2167	927-6018	031.00	17.5018	40.8754	44.2522	27.0074	24666	1491-1641	0340-17890	144.0018	
=	1 A350P	.972	.972	. 472	972	.972	.972	. 972	160	. 971	67.		970	.970	.970	.970	.970	696.	696.	646.	996	996	996	9 6 9	67	496	996	.966	. 965	- 4 V -	. 463	796	960	•
1302		901-0147	881.4666	41.9208	822,8457	893.3292	776.9475	754.5781	730.2181	705.8657	657.1785	559.8478	511.2421	462.6333	4140-114	345.4647	316.9012	248.3517	219.9166	1.2960	74.2963	25.8162	977.3490	78.8937	4	18.417c	41.6062	45.0005	27.6237	10.47.9	193.567	2151	144.0700	
	A ASTP	4 .97	776. 6	776. 5	9 . 9 7 6	1 ,975	5 . 475	. 974	974	. 674		A 4972	279. #	.972	. 471	3 .971	3 .971	2 .970	.970	076.	1 .969	696. 6	696. 9	696° 0	196	1967	4 .967	2 .966	. 965	9 .	744.	79617	0960	
	H915	~	23.	~ ~	2.5	25.	25.	7	~	2,4	27.	, ,	2 A .	24.	7	29.	~	30	ć.	3 ~	ר	7	7	~			7 7 7	34.	•	~		7		
78 H	SIGHA-T	3.0		23-11		. 6	5 . 1	5.4	5.6	ž .	9	7 . 4	9 . 9	6.7	8.9	6.8	6 • 9	7.0	7.0	- ?	7 . 2	7.3	7:3	7:3	27 - 42	7 . 5	7.5	7.5	7.6	4 . 4	7:7	7:7	7.7	
0 A H 23 L		-	4 • 2	? :		4.5	4 . 5	4.5	* . 5						3.9		•	4:1	(:		4:2	4.3	7:		* 3			4.5	Š	9 .	9 :	e 4	4 . 6	
LON 24143034M	. TEMP	-		23.94	, -			16.03	ö	-	12040				*	5.30	•	•	*	52.1		3 • 5 7	Ŧ	3.35	0 9	•	·	•	_	•	•	4 ¢ • -	Ū	١
330 ZH	DEPTH	٥		• •		00	1,25	150.	~	8	.007	3 (0	450.	200	S	0	9 50 •	0	na	850	0	S	9	1000	0	400	0	~	1950	_ ;	2625	8	

	S VEL	74.	74.4	34.7	26.7	23.0	20.3	18.2	17.2	1516.28	15.8	15.6	14.4	12.6	9 • 60	07.3	03.1	198.1	93.5	491.0	8.1	482.7	Ŧ	8.29	02.1	82.2	482.0	8 1 . 8	482.1	-	83.8	ċ	87.5	90.5	93.6	46.9	000	-:+	999	
	OYN ANDA	1157.	1552	• 11595	.9727	. 4994	.8330	.7564	.6048	•	.5478	• 4 1 5 5	.2870	.1635	.0468	.9374	.8360	4304	65902	58237	51136	4630	3859	291	.2754	. 2250	17726	• 088 A 1	•00754	3218	8612	940	54-	192	052	897	789	711	000	
	0EL7A (CC/6H)	3	047	• 00479	.00389	.00344	=	5	028	027	.00267	.00262	.00253	.00241	+00225	.00211	• 00195	.00177	.00159	.00147	.00137	.00124	• 00 1 1 8	• 001100	2	.0000	600	008	0	0001	90	900	902	S	s	900	•	•	004	
•	STANCARD	1507.	878.75	89.3030	039.4546	820 + 4081	#600.9634	776.6400	752.3595	7	703-7669	655 • 1855	606-6153	558 - 0564	509.5086	440.9721	412.4466	343.9323	315.4292	246.9371	218.4561	169.9862	121.5273	73.0794	24.6426	976-2167	927.8018	831.0048	734.2515	7 . 5 4 1 8	240-9754	444.2522	227.0074	9.9792	793-1661	576.5665	360-178	144.0018	0000•	
20	A350P	.974	7.2	72	72	72	7	72	72	.9719	7	971	7	7	20	70	2	2	20	69	969	4	3	9	79	9	99	67	67	9	99	9	ę,	ŝ	3	79	9	9	59	
1300	DYN HEIGHT	12951.	881.9043	842.3625	842.8273	823.3075	8n3.7964	779.4167	755.0444	2730.67726	706.3147	647.6010	608.9023	540.2199	511.5555	442.9097	414.2827	345.6754	317.0882	248.5195	219.9675	171.4325	122.9133	74.4085	25.9182	977.4417	928.9791	832-0934	735.2591	4739	541.7366	445.0463	227.6615	10.5054	793.5713	576.8562	340.3578	144.0729	0000	PROFILE
	A51P	.47	2	17	76	2	75	75	7	9476.	7	7	47.3	73	7.3	72	72	7	971	7	970	20	20	496	696	69	969	9	9 6 8	967	67	99	65	Ŷ.	3	62	7	9	•	
	SIGMA	:	:	3.2		4.4	5.2	5 . 4	5 . A	24.07	4.2	4 . 5	4.8	7.2	7.4	A . A	4 • 4	A . A	9.2	4.6	0.0	0.3	30.47	9 • 0	1.2	٠ -		7:4	5 . 9		3.9	*	5 . 5	4.4	~	A . 7	9.7	4	:	FROM
78 HR	16MA-T	23.0	ċ	7	4.0	4.5		5.0	5.2	25.30	5.3	5:4	5.5	5.6	5.8	6.0	9 . 1	6.3	6.5	9 . 6	6.7	6.9	•	7.0	7:1	7:1	7.2	7.3	7.3	7 . 4	7:4	,	7.6	7.6	7 . 6	7.6	7.7	7.7	7.7	. 34
23 11	SAL S	09.		•	34.59	•	•	34.74	.,	34.72	34.73	34.72	9	•					-	34 1 1 5	-	•	34.03	-	34.19			7	•	34.41	*	•	ŝ	ŝ	•	•	9	9	9.	
LON 144024H	TEMP			4 . 8	1 . 5	0.0	6.8	8.0	Š			•	•	0	æ	•	1.5	•	÷	•	٠,	-	•	•	•	-	•		-	•	•	2 · 5 A	• 2	•	06.1	~	1 4 4 4	1.42	4.	OF EDDY
130 OH	DEPTH (H)	0	20.	0	•0•	o	1000	1 2	150•	1	200	a	8	S	0	20	0	0	8	0	8	S	8 00•	20	0	S	0	0	0	0	0	1500•	72	9	_	00.4	62	9	000	TER

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3	: -	מיים לים	<		¥ 5 /	3	/ G.R.	: :	2 / 6 25	Ë	/ SEC
C			23.1	-	977	901.3022	.972	096-2051	10047	.0901	2115
Ċ	-	-		7,7	. 977	9824.160	972	078 + 7531	0047	.0026	32.2
•0,	24.15	34.33	23.12	23.29	.9772	2842.21033	.9725	2559+30301	.00478	2.50733	1522.65
0	3 : 5	4 1		7	,976	242.6685	772	937,0546	3.50	.6133	31.5
0	Ξ	4 .			.975	025.1387	972	020 + 408	037	.7303	25.9
0	4:6	4 3 7	4 . 6	. Y.	. 575	1623.600	972	600+9534	600	. 6594	2204
1 25.	. 5	417			1975	777.2900	972	776,6500	030	15797	6001
ن. د.	7:7	4 . 7	5 . 1	. S	1974	759.8657	472	752:3595	028	1905.	17.9
175.	7:1	10 1		0 • 9	. 97 4	730.4930	971	72310618	027	. 4362	16.5
00		4:7	S . A	2 . 9	. 77 4	706.1360	124	703-7669	026	.3687	8 · S I
0	•	416	5 • 5	4 . 4	.974	427.4250	- ~	655 · [05 li	0.26	. 2386	1:00
Ç	•	4 . 4	5.7	7.0	. 573	608.7321	971	66181406	023	.1167	611
Š	• 7	4.5	•	7 . 4	. 873	540+0585	7	550+0564	022	12001	900
C	212	4 . 4	7.9	7.9	. 972	511.4058	970	509 • 5086	020	. 097;	1.50
ŝ		4:3	6.3		.972	462.7733	970	460-9721	0	. 0012	99.7
8	5	4.2	*	9.7	.972	414-1605	970	9944-214	910	.7138	954.9
5	•	-	A : A	9.1	164	345.5670	970	363+9323	200	. 6346	40.7
Ġ	7	-	5.7	9:5	169	316.9915	170	315.4272	70	15626	484.8
	Ξ	0 0 1	.5	*	156	266.4324	369	246.5311		14602	2.404
1001	~	9.0	4	:0	.970	217.8887	696	2,8.4561	3	. 4325	82.1
50	*	7:0	7:0	P . 0	4970	171.3613	696	149.9862		13751	47910
8	=	-	7:1	6.0	. 970	122.8403	969	121.5273	0 0	.3210	480.7
Ċ	÷	:	7:1	-	.969	74.3498	998	73.0744	\$00	.2701	せいひんり
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Ö	ŗ	4:2	7 . 2	Y: Y	.969	917,3925	99	976.2167.	500	1750	400 %
000	.; ,,		7 . 2	<u>*</u>	. 9 4 9	928.9334	9 6 8	927 - 4010	003	7171.	480.7
9	•	4	7.3	2 . 4	. 768	432.0332	917	83110018	800	.0492	461.3
ទី	•	-	7:1	3:0	0 0 0	735.2228	2	734+4515	007	9713	2117
S.	`	- -	7 . 4	7 . 5	1960	638.4410	466	637.5410	400	000	25.25
9	7	ë T		C: -	1961	SKI.707A	466	510.8754	000	8324	433.0
ပ္	rt.	٠ د	7:5	4:6	946	9410.844	99	444.257	00	673	484.7
7.7	\tilde{z}	#: #:	7:4	4:5	. 965	227.6397	Ø.	227 - 007 4	600	4322	457.3
e, FJ	5	 • •	7 . 6	4 . 4.	. 9 6 4	10.48.01	\$ 9	311742	500	5089	470.3
_	C :	4:5	1.6	1:1	.963	793.5587	4	793-1661	900	3924	4307
000	•	•	7:1	1:6	1965	\$76.6485	79	57615665	200	020	2006
3 2	_	•	7:7	9 . 2	196	340.3537	5	310-1707	* 000	1740	000
ر ا ا	.3	4:00	7:7	.0	.940	144.0713	9	144.0018	*00	1640	0.40
600	4.1	÷ . 5	7.7	-	. 960	00000	S	0000.	700	000	1.40
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STATION NO.

A-6

	S VEL H/SEC)	33.8	34.1	22.4	18.7	-	516.1	515.8	515.5	5-12-4		12:0	210.0	507.1	03.1	89.2	496.7	19101	488.8	487.9	486.2	484.8	482.4	482.6	82.2	0.5	82.5	483.3	484.0	84.9	87.6	90.5	3.6	47.0		1:10	5 • 90	
•	024 2	``	.0853		.8472	.7746	. 10219	.63737	. 2704	. 43404	4016.	C/a •	• 0 / 0 5 5	~	8599	699	6817	60380	5309	4631	4400	342A	28831	364	875	0975	156	3909	67.	1 9464	587	297	100	42	12	714	0	
•	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200	4 00	, המ מינים	029	028	27	970	0026	000	5200	P 2 0 0	022	7	<u>۔</u>	17	9 7	910	Ŧ.	0013	012	=	010	010	000	8000	007	000	900	99000.	000	CS	.000.	Ç	5	.00048	004	
	STANDARD (H)	1531	859-303		800 - 963	776.6600	752.3595	728.0618	703-7469	653-1653	F	- 950 • BSc	204 • 5086	440.9721	412.4466	343+4323	315.4292	266.9371	218 - 4561	169.9862	121.5273	73.0794	24.6426	976.2167	927-8018	831.0048	734.2515	637.5418	540.0754	444.2522	227.0074	9.9792	43.1461	576.56	789	144.001	0000•	
12	A350P CC/GH3	726	7 25	7.24	722	721	720	719	9717	9718	713	= '	708	90/	704	702	200	697	695	696	169	989	9896	684	589	9678	67	996	9	.9660	Ş	ŝ	.	4	=	.9603	29	
301	YN HELGH		842.3883	821.149	803.A107	779.4346	45.0647	730.6991	706.3375	057.5246	604.9260	540.2437	511.5792	442.9333	414.3064	345.6942	317.1109	248.5409	2,9.9870	171.4493	122.9279	74.4223	25.9309	77.4531	28.9893	32-1023	35.2672	38.4808	41.7425	1445.05195	27.6662	10.5049	1.67.18	576.8596	9	144.0734	•	PROF1L
	S 1 P / GH	. 9772	77	. ·	75	Ŧ	Ξ.	-	7	7.4	7.7	7 (7	7 2	72	7.2	7	7	70	70	20	70	69	69	69	9	9	67	\$	9	Š	4	3	7 9	-	9	9	EL 0C
	1 G M A	23.30	3.3			5 . 7	5 . 9	•	4 . 2	4 . 5	٠. د	7 : 2	7 . 4			A . A		4.6	6.6	0.3	4.0	6.0			=	;	5 . 0	7.4	3:0	•	2.0	4 . 4	•	n . 7	39.78	•	-	
78 HR	H .	23.5	3,2	302	5.0	5.1	5.3	5.3	5.			9 .	5.8	6:0	9 • 2	6.3	9.9	9 . 9	6.7	6 • 8	6 . 9	7.0	7.0	7.1	7.2	7 . 3	7.3	7 . 4		7 . 5	5 . 2	27.64	1.6	1.6	7.7	7:7	~	• 12
DA MO 24 11		*****	•	9 1		. 7		34.73	~	•	•	•	'n	•	•	34.27		_	34.09	-	-	•	-	•	7	•	•	Ŧ		34.47	•	ŝ	34.50	9.	•	•	•	5
LAT LON 330 141440538	E	24.60	*:			9	17.14	16.91		Ī	•	•	•	12.87	11.50	10.52	•		6 • 6		5 - 77	5.20	¥ • ¥	~	•	÷	~	•	•	Š	3.29	70.2	C * -	1.70	1 • 69	1.62	1 . S.A.	OF £007
1A7 330 1H		20.						175.	0	9	9	9 6	۰	S	0	550	• 009	S	0	S	8000	Ś	0	S.	9		0	0	0		17250	1950.	2175.	3	16251	2850.	0	æ

STATION NO. 10

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APPENDIX B

STD DATA FROM THE KUROSHIO

(24-26 October 1976)

AND CALCULATED PARAMETERS

		••											٠
STATION	. NO. 11								•				
LA1	201	DA MO	TR HK.					•			:		
360528	<u>*</u>	26 11	. 9 /			. 2591	-	,					
DEPTH	TEMP	SAL S	T-AMP1	SIGMA	ASTP	OTN HEICH!	•	SIAMOARU	0 £ L 1 A	UTN ANOM	> 4EL		
(H)		00/			-		9/22)	~	(26/44)	E	IM/SEC?	:	•
•	18.90	14.04	24.33	24.33	~	2414.41140	•	£4050./147	.00100	819/0.7	1517.93		
	•		4:5	*	9762	2400.38942	16:	4796.7847	. 001100 -	4.00.4	~		
•0+	18.84		24.35		1966.	2380.86/24	47/6.		00500.	1 + 7 5 4 . !			
0	15.02	÷	5 • 5	₩.	.9748	2341.35056	•	7357	***00.	107/401	1507.77	•	
•00	•		25.75	01.47	44744	341.4646	`.	420.0467	877Nn.	1847401	1506.36		
•007	`		3		17112	374.	· .	43700004	*07nn•	1.181.1	~		
125.	11.39	7	•	7:4	***	2440.0410		7.9677	/ R ? OO •	1.13281	1476.10		
1,051	=	1.1		•	14717	~	٠,٠		.00164	-	1409.BU	!	;
1751	8 . 4 1	34.05	4.4		.9734	2249.34100	.97		94100.	1.04737	1486.12		
2000		÷	5.5	*	19733	275.00/3	.97	242313987	75100.	1.60854.	1404.69	: ,	•
S	0519		4.7	27.87	4714	176.3537	. 97	2174.8	1001	•	9.8		
8	2++1	7:9	•	ë	47661.	127.7175		2126.2471	67100.	7	7 . 4		
0	8	•	6 : 9	ŝ	. 4723	79.0	. 97	2 77.6	-	1.40852	7		
0	\$	1:0	6 • 9	B : E	-19720.	. 30.49.07	24	3-29-1404	1	~	7:		
0	Ŧ	0	2.0			8 - E	.97	1980.6039	100100	952	4.7		
8	7	-	1.7	•	. 49714.	33.3214		1432.0	0100.	67.	•		
2	o ·		7:	•	. 9712	84.75/2		1.45.E891	* UUU •	1017307	»·•		
9 :	TO .	716	7:5	ċ	. 17709	36.2	•	0190.5891					
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2	3 + 3 5	Ŧ	.:	9	1166.	4	•	1687.618	. 60000	1.01271	S		
	_	7	?	0:	-	42-1311	96	1651.1691	08000• ::	•	S		
s	•	~	7 : 3	=	96460	2	•	1592.7112	9,000.	3	75.9		
0006	•		7.1	9:	* * * * *	00/11-64	996	*******	* 700n •	•	``	:	
s	•	34.40		=	1,44.	1406.70/90	•	1495 . 8485	1,000.	46999	14/7.12		
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SPECIAL CONSIDER CONTRACTOR SPECIAL SP

APPENDIX C

STD DATA FROM KUROSHIO WARM EDDY

(29-30 October 1976)

AND CALCULATED PARAMETERS

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